Application No.	Applicant(s)
09/819,105	HANDIQUE ET AL.
	Art Unit
Brian R. Gordon	1743
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n's Patent Drawing Review  Amendment / Comment or i	in the Office action of
t of BIOLOGICAL MATE OR THE DEPOSIT OF BIOI	RIAL must be submitted. Note the LOGICAL MATERIAL.
6. ☐ Interview Sur Paper No./M ), 7. ☑ Examiner's A	Mail Date Amendment/Comment Statement of Reasons for Allowance
	Examiner  Brian R. Gordon  ars on the cover sheet with OR REMAINS) CLOSED in or other appropriate community. This application is stand MPEP 1308.  ar. der 35 U.S.C. § 119(a)-(d) or other received. The deen received in Application are application. The communication to file entered and the entered application.  are deen received in Application are application.  are deen received in Application are deen received in Application.  are deen received in Application are deen received in Application.  are deen received.  been received in Application are deen received in Application.  are deen received.  been received in Application are deen received in Application.  are deen received.  been received in Application are deen received in Application.  are deen received.  been received in Application are deen received.  are deen received in Application are deen received.  been received in Application are deen received.  are deen received in Application are deen received.  been received in Application are deen received.  are deen received in Application are deen received.  been received in A

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Julius Fister on April 26, 2005.

The application has been amended as follows:

In the claims:

In claim 1, amend the second step (iii) immediately preceding step (b) as follows:

(iii) after determining the presence or absence of the microdroplet, determining reaction products of one or more components of the microdroplet, if the microdroplet was determined to be present; and

In claim 26, amend the second step (iv) immediately preceding step (b) as follows:

(iv) after sensing the presence or absence of the microdroplet at the selected position, sensing the composition of a <u>the</u> micro-droplet at a <u>the</u> selected position in a <u>the</u> selected passage by internal components acting as a micro-droplet presence sensor by sending optical signals to the MF device and receiving optical signals returned from the M'F device, and

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In claim 27, amend the second step (ii) immediately preceding step (b) as follows:

(ii) sensing, utilizing at least one internal component, the presence or absence of a micro-droplet at a <u>first</u> selected position in a selected passage and then determining the presence of a reaction product of at least one component of the microdroplet at a <u>second</u>, different position of the microfluidic device <u>if the microdroplet was sensed at the</u> first selected position, and

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In claim 28, amend the second step (e) as follows:

(e) reacting the at least one micro-droplets after the steps of determining, utilizing the at least one internal components the presence or absence of the at least one final microdroplet and the moving the at least one final micro-droplet, reacting the at least one micro-droplets.

In claim 38, amend the second step (g) as follows:

g) reacting the micro-droplet by waiting for a time sufficient for occurrence of the reaction or by exciting the final micro-droplet by providing control signals to the MF device, wherein the excitation is sufficient to cause occurrence of the reaction and where the reacting step is performed after the determining, utilizing the at least one internal component, the presence or absence of the micro-droplet within a region of the MF device.

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## Allowable Subject Matter

2. Claims 1-13, 15-38, and 52-53 are allowed.

3. The following is an examiner's statement of reasons for allowance: As discussed during the interview of April 7, 2005, the prior art of record does not teach separate steps of determining the presence of a microdroplet and subsequent detection and reacting the reaction microdroplet.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Gordon whose telephone number is 571-272-1258. The examiner can normally be reached on M-F, with 2nd and 4th F off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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